

IN THE CLAIMS:

1. (Currently amended) Gas slab laser with a gas-filled chamber bounded by a housing (1), with at least two electrodes excited by high frequency, which extend into the tubular housing, overlap each other and form a discharge chamber, and with resonator mirrors, wherein the resonator is adjusted by plastic deformation of the housing (1) and/or (2 and 3) to produce the required spatial alignment of the resonator mirrors as well as the electrodes relative to each other, wherein always one of the electrodes and one of the mirrors form a structural unit are connected to back other, so that adjustment thereof is at the same time.

2. (Currently amended) Gas slab laser with a gas-filled chamber bounded by a housing (1), with at least two electrodes excited by high frequency, which extend into the tubular housing, overlap each other and form a discharge chamber, and with resonator mirrors, wherein the resonator is adjusted by elastic deformation of the housing (1) and/or (2 and 3) by application of a force to produce the required spatial alignment of the resonator mirrors as well as the electrodes relative to each other, wherein always one of the electrodes and one of the mirrors form a structural unit are connected to back other, so that adjustment thereof is at the same time.

3. (Previously presented) Gas slab laser according to claim 1, wherein the plastic deformation is carried out by shot peen forming.

4. (Previously presented) Gas slab laser according to claim 2, wherein the application of a force is by a constant elastic force with a force F and opposing supports A and B.

5. (Previously presented) Gas slab laser according to claim 2, wherein the application of a force is by electrical elements.

6. (Previously presented) Gas slab laser according to claim 5, wherein the electrical elements are piezoelectric devices or electromagnets.

7. (Previously presented) Gas slab laser according to claim 2, wherein the application of a force is by a medium.

8. (Previously presented) Gas slab laser according to claim 7, wherein the medium is compressed air or hydraulic fluid.

9. (Previously presented) Gas slab laser according to claim 2, wherein the application of a force is by heating elements which heat the laser housing on one side and thus introduce forces.

10. (Previously presented) Gas slab laser according to claim 2, wherein the application of a force is by permanent magnets.

11. (Previously presented) Gas slab laser according to claim 2, wherein the force is applied mechanically.

12. (Previously presented) Gas slab laser according to claim 11, wherein the force is applied by a clamping screw.

13. (Previously presented) Gas slab laser according to claim 2, wherein the force is variable and applied from a controller.